

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A metallic catalytic particle ~~for selectively producing single-walled carbon nanotubes~~, comprising:

Co and Mo in a ratio of one part Co to at least two or more parts of Mo; and

a support material, and wherein the Co, Mo and support material are combined to have a particulate form; and

a single-walled carbon nanotube deposited on the metallic catalytic particle.

2. (previously presented) The metallic catalytic particle of claim 1 further comprising an additional Group VIII metal.

3. (previously presented) The metallic catalytic particle of claim 1 further comprising an additional Group VIb metal.

4. (currently amended) The metallic catalytic particle of claim 1 wherein the support material is selected from the group consisting of silica, ~~MCM-41,~~

alumina, MgO, ZrO₂, aluminum-stabilized magnesium oxide, and molecular sieve zeolites.

5. (previously presented) The metallic catalytic particle of claim 1 comprising from about 1% to about 20% by weight of Co and Mo.

6. (currently amended) A metallic catalytic particle ~~for selectively producing single-walled carbon nanotubes~~, comprising:

at least one of Ru, Rh, Pd, Ir, Pt, at least one Group VIb metal, and
a support material, combined to have a particulate form; and
a single-walled carbon nanotube deposited on the metallic
catalytic particle.

7. (previously presented) The metallic catalytic particle of claim 6 wherein the at least one Group VIb metal is selected from the group consisting of Cr, Mo and W.

8. (previously presented) The metallic catalytic particle of claim 6 comprising Ru.

9. (previously presented) The metallic catalytic particle of claim 6 comprising Rh.

10. (previously presented) The metallic catalytic particle of claim 6 comprising Pd.

11. (previously presented) The metallic catalytic particle of claim 6 comprising Ir.

12. (previously presented) The metallic catalytic particle of claim 6 comprising Pt.

13. (currently amended) The metallic catalytic particle of claim 6 wherein the support material selected from the group consisting of material of silica, ~~MCM-41, alumina~~, MgO, ZrO₂, aluminum-stabilized magnesium oxide, and molecular sieve zeolites.

14. (previously presented) The metallic catalytic particle of claim 6 comprising from about 1% to about 20% by weight of the at least one Ru, Rh, Pd, Ir and Pt and the at least one Group VIb metal.

15. (currently amended) A metallic catalytic particle ~~for selectively producing single-walled carbon nanotubes,~~ comprising:

at least one Group VIII metal, excluding Fe, at least one of Cr, Mo and W, and a support material, and wherein the Group VIII metal, the at least one of Cr, Mo and W, and the support material are combined to have a particulate form, excluding a metallic catalytic particle consisting of the support material and Co and W or Co and Mo; and

a single-walled carbon nanotube deposited on the metallic catalytic particle.

16. (previously presented) The metallic catalytic particle of claim 15 wherein the at least one Group VIII metal is selected from the group consisting of Co, Ni, Ru, Rh, Pd, Ir and Pt.

17. (previously presented) The metallic catalytic particle of claim 15 comprising Cr.

18. (previously presented) The metallic catalytic particle of claim 15 comprising W.

19. (previously presented) The metallic catalytic particle of claim 15 comprising Mo.

20. (currently amended) The metallic catalytic particle of claim 15 wherein the support material selected from the group consisting of material of silica, ~~MCM-41, alumina,~~ MgO, ZrO₂, aluminum-stabilized magnesium oxide, and molecular sieve zeolites.

21. (previously presented) The metallic catalytic particle of claim 15 comprising from about 1% to about 20% by weight of the at least one Group VIII metal and the at least one of Cr, Mo and W.

22. (currently amended) A metallic catalytic particle ~~for selectively producing single-walled carbon nanotubes,~~ comprising:

Co and Mo in a ratio of one part Co to at least two or more parts of Mo, and a silica support material, wherein the Co, Mo and silica support material are combined to have a particulate form; and
a single-walled carbon nanotube deposited on the metallic catalytic particle.

23. (previously presented) The metallic catalytic particle of claim 22 further comprising an additional Group VIII metal.

24. (previously presented) The metallic catalytic particle of claim 22 further comprising an additional Group VIb metal.

25. (previously presented) The metallic catalytic particle of claim 22 comprising from about 1% to about 20% by weight of Co and Mo.